Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

For Quarter 4 2014, which spanned from October 1, 2014 to December 31, 2014, there were 8,052 incidents reported to the Indiana Trauma Registry at the Indiana State Department of Health. There were 97 hospitals that reported data, of which 9 were level I or II trauma centers and 10 were level II trauma centers. There were 7 hospitals that either started to report again or were new to reporting during this quarter compared to the previous quarter, while 2 hospitals dropped off from reporting this quarter from the previous quarter. A map of the state with the reporting hospitals can be found on page 49. Trauma centers represented 58.7% of the data. There were 2,857 incidents reported for October, 2,696 reported for November, and 2,499 incidents reported for December.

The content of this report has changed due to suggestions and additions requested by the Indiana State Trauma Care Committee at the February 20, 2015 meeting. Explanations of the changes requested and adapted from the ISTCC meeting can be found on page 21.

Some general reminders include that the blue columns represent an Indiana average, red columns represent level I and II trauma centers, green columns represent level III trauma centers and orange non-trauma centers. If a single percent is listed above a group of bars, the percent listed represents the average for Indiana. If a number is listed above a group of bars, it represents the count for Indiana. The category 'All Transfers' denotes the patient group where ED Disposition = Transferred to Another Hospital. The category 'Linked Transfers' represents the patient group for whom the initial hospital and final hospital information could be linked.

The E-codes used in this report follow the ICD-9 CDC matrix of external cause of injury.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma. Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of

Injury

ED: Emergency Department ICU: Intensive Care Unit ISS: Injury Severity Score

LOS: Length of Stay

MVC: Motor Vehicle Collision

OR: Operating Room
Ps: Probability of Survival
CAHs: Critical Access Hospital

Calculations:

 $\overline{P_S = 1/(1+e^{-b})}$ where b=b₀+b1(RTS) + b2(ISS) + b3(Age Index)

Total GCS = Verbal GCS + Motor GCS + Eye GCS

RTS = 0.94*GCS+0.73*SBP+0.29*RR

 $ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$

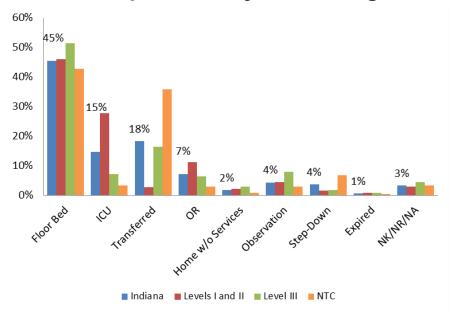
Statewide Quarter 4 Data Report

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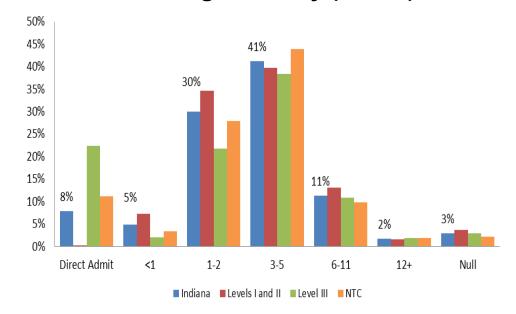
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ED Disposition by Percentage



ED Length of Stay (Hours)



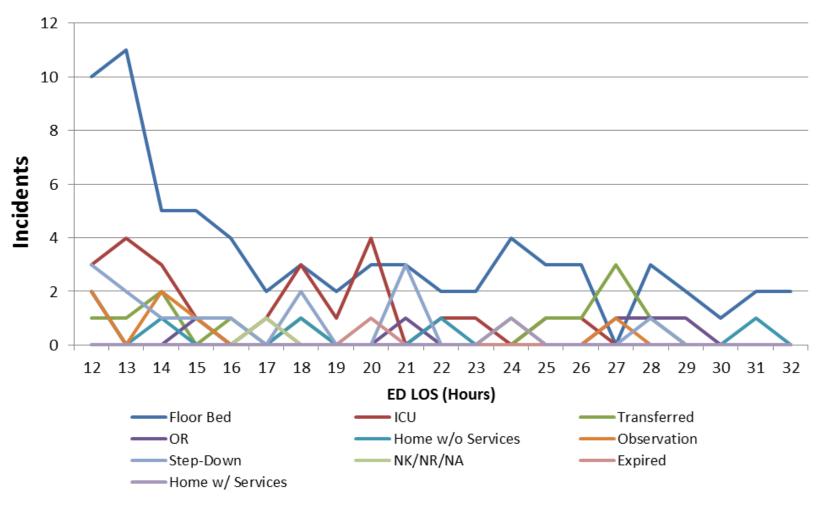
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ED Disposition for ED LOS >12 Hours

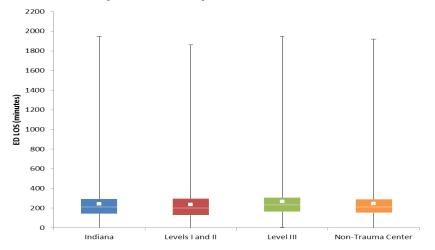


N=146 *One case expired > 12 hours

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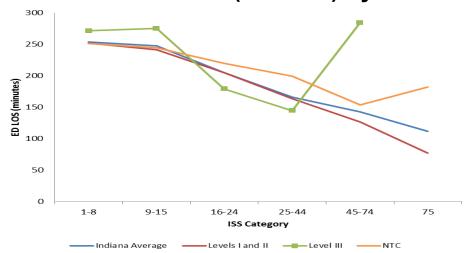
ED LOS (Minutes) - All Patients



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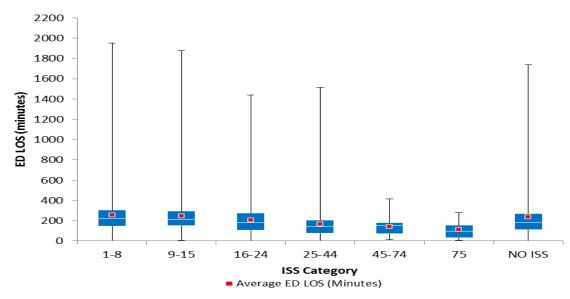
ED LOS (Minutes) by ISS



A table with all the values for ED LOS is found on page 47.

ED LOS (Minutes) by ISS

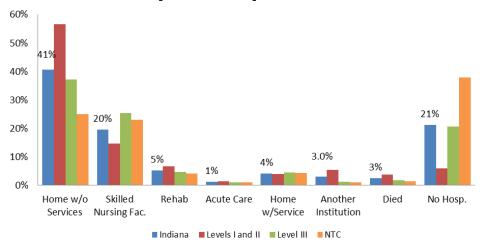
Note for EDLOS by ISS, there were 3 cases at Non-Trauma Centers with ISS greater than 45.



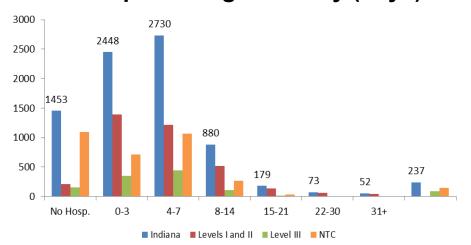
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Hospital Disposition



Hospital Length of Stay (days)

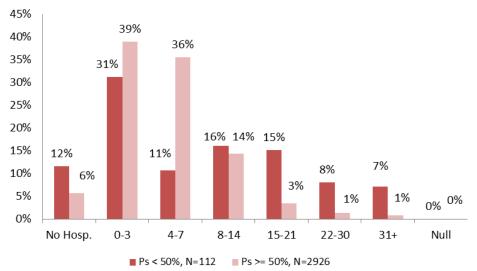


^{*}There are new categories for the Hospital Disposition for the 2014 Data Dictionary <1%: null, psych., long term care hospital, AMS, hospice and intermediate care

Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

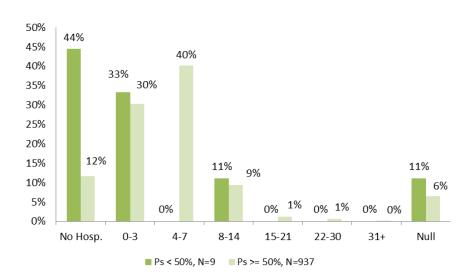
Hospital LOS (days) by Ps Levels I and II



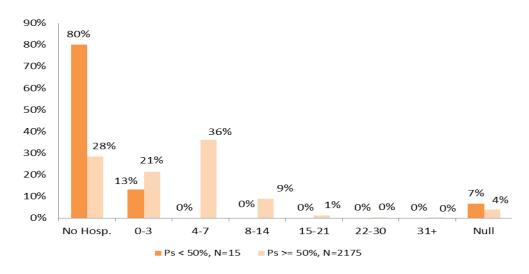
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Hospital LOS (days) by Ps Level III



Hospital LOS (days) by Ps Non-Trauma Centers



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ED Disposition of Expired for Ps ≥ 50%, N=7

Facilities	6 Non-Trauma Centers 1 Trauma Centers	ISS	2 (1-8 cat.); 2 (9-15 cat.); 1 (16-24 cat.); 2 (25-44 cat.)
Average Distance from Scene to Facility	8.5 Miles	RTS—Systolic	3.7 (2-4)
Transport Type	3 Ground ambulance; 3 Helicopter; 1 Private/Public Vehicle/Walk-In	RTS—GCS Scale	1.7 (0-4)
Trauma Type	6 Blunt; 1 Penetrating	RTS—Resp. Scale	3.1 (3-4)
Cause of Injury	3 Falls; 3 MVC; 1 Firearm	RTS	5.2 (3.8-7.8)
Signs of Life	5 Yes; 2 Missing	B Value	1.3 (0.1-3.8)
Age	63.3 Years (3-86 Years)	Ps	0.7 (0.5-0.98)
Gender	2 Female; 5 Male	Resp. Assistance	2 Yes; 5 No
Interfacility Transfer	1 Yes; 6 No	ED LOS	1.7 hours (0.5-3.3 hours)
Region	5 North; 1 Central; 1 Missing		

⁻Region was created from injury zip code.

⁻Numbers represent counts per category or mean with minimum and maximum in parentheses.

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ED LOS > 12 Hours, N=110

Facilities	53 Level I and II 18 Level III 39 Non-trauma Centers	ISS	65 (1-8 cat); 39 (9-15 cat); 2 (16-24); 3 (25 -44); 1 (No ISS)
Average Distance from Scene to Facility	8.0 Miles	RTS—Systolic	4 (4-4)
Transport Type	79 Ambulance; 4 Helicopter, 27 Private Vehicle/Walk-In	RTS—GCS Scale	3.8 (0-4)
Trauma Type	104 Blunt; 6 Penetrating	RTS—Resp. Scale	3 (3-4)
Cause of Injury	72 Fall; 22 MVC; 4 Struck by, Against; 4 Firearm; 5 Transport; 2 Cut/Pierce; 1 Bicyclist	RTS	7.4 (3.8-7.8)
Signs of Life	107 Yes; 1 No; 1 NA	B Value	3.96 (0.4-5.6)
Age	58.5 Years (4-96 Years)	Ps	0.97 (0.61-0.996)
Gender	51 Female; 58 Male; 1 NK	Resp. Assistance	8 Yes; 96 No; 6 NK
Interfacility Transfer	16 Yes; 94 No	ED LOS	18.9 (12-32.5)
Region	32 North; 55 Central; 3 South; 20 Un- known		
ED Disposition	57 Floor Bed; 4 Home w/o Services; 22 ICU; 1 NA; 3 Observation	7 OR; 8 Telemetry/Step-Down Unit; 8 Transferred	

⁻Region was created from injury zip code.

⁻Numbers represent counts per category or mean with minimum and maximum in parentheses.

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ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=101, Trauma Centers

Interfacility Transfer	38 Yes	Interfacility Transfer	63 No
Average Distance from Scene to Facility	15.6 Miles	Average Distance from Scene to Facility	9.5 Miles
Transport Type	26 Ambulance; 12 Helicopter	Transport Type	51 Ambulance; 10 Helicopter; 1 Fixed Wing; 1 Private Vehicle
Trauma Type	32 Blunt; 3 Penetrating; 1 Burn; 2 Other	Trauma Type	48 Blunt; 8 Penetrating; 3 Burn; 4 Other
Cause of Injury	24 Fall; 7 MVC; 3 Firearm; 1 Fire/Burn; 1 Transport; 2 Not Categorized	Cause of Injury	35 Fall; 10 MVC; 8 Firearm; 3 Fire/Burn; 1 Transport; 2 Struck By, Against; 4 Not Categorized
Signs of Life	27 Yes; 11 No	Signs of Life	50 Yes; 13 Unknown
Age	68 Years (27-91 Years)	Age	71 Years (19-96 Years)
Gender	13 Female; 25 Male	Gender	24 Female; 39 Male
Region	2 North; 19 Central; 7 South	Region	22 North; 26 Central; 10 South
ISS	5 (1-8); 8 (9-15); 7 (16-24); 16 (25-44); 1 (45-74); 1 (75)	ISS	10 (1-8); 17 (9-15); 15 (16-24); 18 (25-44); 3 (45-74)
RTS—Systolic	4 (4-4)	RTS—Systolic	3.9 (2-4)
RTS—GCS Scale	2.5 (0-4)	RTS—GCS Scale	3.4 (0-4)
RTS—Resp. Scale	3 (3-4)	RTS—Resp. Scale	3 (0-4)
RTS	6.2 (3.8-7.6)	RTS	6.9 (3.8-7.8)
B Value	1.8 (0.12-3.6)	B Value	2.3 (0.04-3.8)
Ps	0.8 (0.5-0.97)	Ps	0.9 (0.5—0.98)
Resp. Assistance	19 Yes; 19 No	Resp. Assistance	17 Yes; 41 No; 5 Unknown
ED LOS	2.5 Hours (0.6-6.9 Hours)	ED LOS	3.7 Hours (0.45-26.95 Hours)

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ED Dispo ≠ Expired, Hospital Dispo = Expired for Ps ≥ 50%, N=45, Non-trauma Centers

Interfacility Transfer	2 Yes	Interfacility Transfer 43 No	
Average Distance from Scene to Facility	5.8 Miles	Average Distance from Scene to Facility	7.5 Miles
Transport Type	2 Ambulance	Transport Type	35 Ambulance; 6 Private Vehicle; 2 NK
Trauma Type	1 Blunt; 1 Unknown	Trauma Type	41 Blunt; 2 Other
Cause of Injury	2 Falls	Cause of Injury	41 Falls; 1 Bites/Stings; 1 Not Categorized
Signs of Life	2 Yes	Signs of Life	43 Yes
Age	Geriatric	Age	81.6 Years (50-103 Years)
Gender	2 Male	Gender	23 Females; 20 Males
Region		Region	12 North; 17 Central; 11 South
ISS	2 (9-15)	ISS	13 (1-8); 26 (9-15); 2 (16-24); 2 (25-44)
RTS—Systolic	4	RTS—Systolic	3.9 (2-4)
RTS—GCS Scale	4	RTS—GCS Scale	3.6 (0-4)
RTS—Resp. Scale	3	RTS—Resp. Scale	3.08 (3-4)
RTS	7.55	RTS	7.4 (4.7-7.8)
B Value	3.16	B Value	3.25 (0.9-5.5)
Ps	0.96	Ps	0.95 (0.7-0.996)
Resp. Assistance	1 Yes; 1 No	Resp. Assistance	12 Yes; 22 No; 9 Unknown
ED LOS	1 Unknown; 1 Direct Admit	ED LOS	4.79 Hours (1.15-13.6)

⁻Region was created from injury zip code.

⁻Numbers represent counts per category or mean with minimum and maximum in parentheses.

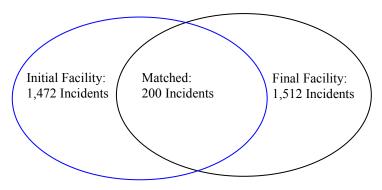
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

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For Quarter 4, 2014, of the 8,052 incidents reported to the Indiana Trauma Registry, 1472 cases that had an ED Disposition of "Transferred to another acute care facility" at the initial facility or that had the Inter-Facility Transfer equal to "Yes" at the Trauma Center. Of those transferred, 200 cases were probabilistically matched. The linked cases make up 6.7% of the Q4 2014 data. All public health preparedness districts are repre-

sented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.



The initial facility in which transfers come from may be considered Critical Access Hospitals (CAHs). All Indiana CAHs are considered Rural, and must meet additional requirements to have a CAH designation, such as having no more than 25 inpatient beds and being located in a rural area. Facilities that are highlighted indicate that these facilities reported data for Quarter 4, 2014.

Within this transfer data section, the purple columns represent the transfer cases and the single percentages represent the percent for the transfer cases. For two demographic variables, patient age groupings and gender, the Indiana average is included to provide more insight to this transfer population.

Indiana Critical Access Hospitals (CAHs)

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Adams Memorial Hospital	Pulaski Memorial Hospital
Cameron Memorial Community Hospital Inc	Putnam County Hospital
Community Hospital of Bremen Inc	Rush Memorial Hospital
Decatur County Memorial Hospital	Scott Memorial Hospital
Dukes Memorial Hospital	St Vincent Frankfort Hospital Inc
Gibson General Hospital	St Vincent Jennings Hospital Inc
Greene County General Hospital	St Vincent Mercy Hospital
Harrison County Hospital	St Vincent Randolph Hospital Inc
IU Health Bedford Hospital	St Vincent Salem Hospital Inc
IU Health Blackford Hospital	St. Mary's Warrick Hospital Inc
IU Health Paoli Hospital	St. Vincent Clay Hospital Inc
IU Health Tipton Hospital	St. Vincent Dunn Hospital Inc
IU Health White Memorial Hospital	St. Vincent Williamsport Hospital, Inc.
Jasper County Hospital	Sullivan County Community Hospital
Jay County Hospital	Union Hospital Clinton
Margaret Mary Community Hospital Inc	Wabash County Hospital
Parkview LaGrange Hospital	Woodlawn Hospital
Perry County Memorial Hospital	

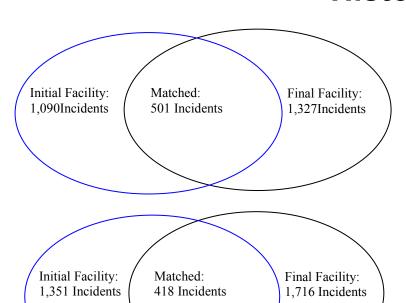
Rural Hospitals

	Columbus Regional Hospital	King's Daughters' Health
-	Daviess Community Hospital	Kosciusko Community Hospital
	Doctor's Neuromedical	Marion General Hospital
	Fayette Regional Health System	Memorial Hospital
	Franciscan St Anthony Health - Michigan City	Memorial Hospital and Health Care Center
	Franciscan St Elizabeth Health - Crawfordsville	Parkview Noble Hospital
	Good Samaritan Hospital	Reid Hospital & Health Care Services
	Henry County Memorial Hospital	Saint Joseph RMC - Plymouth
	Indiana University Health La Porte Hospital	Schneck Medical Center
	Indiana University Health Starke Hospital	11

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Historical Links

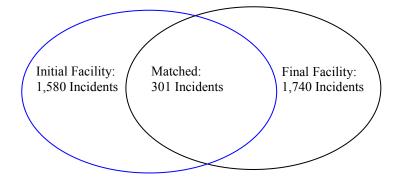


For Quarter 1 2014, of the 6,824 incidents reported to the Indiana Trauma Registry, 1,090 cases that had an ED Disposition of "Transferred to another acute care facility" at the initial facility or that had the Inter-Facility Transfer equal to "Yes" at the Trauma Center. Of those transferred,

501 cases were probabilistically matched. The linked cases make up 14.7% of the Q1 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.

For Quarter 2, 2014, of the 8,272 incidents reported to the Indiana Trauma Registry, 1,716 cases that had an ED Disposition of "Transferred to another acute care facility" at the initial facility or that had the Inter-Facility Transfer equal to "Yes" at the Trauma Center. Of those transferred,

418 cases were probabilistically matched. The linked cases make up 13.7% of the Q2 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.



For Quarter 3, 2014, of the 8,814 incidents reported to the Indiana Trauma Registry, 1580 cases that had an ED Disposition of "Transferred to another acute care facility" at the initial facility or that had the Inter-Facility Transfer equal to "Yes" at the Trauma Center. Of those transferred,

301 cases were probabilistically matched. The linked cases make up 9.1% of the Q3 2014 data. All public health preparedness districts are represented. The diagram below illustrates the overlap between the transfers reported from the initial facility and from the final facility that can be matched.

Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

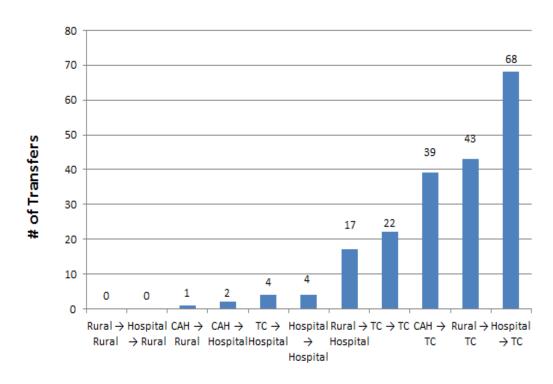
Facility to Facility Transfers

For Transfer Patients:				
Initial Hospital Type	Final Hospital Type	Incident Counts		
Rural Hospital	Rural Hospital	0		
Hospital	Rural Hospital	0		
Critical Access Hospital	Rural	1		
Critical Access Hospital	Hospital	2		
Trauma Center	Hospital	4		
Hospital	Hospital	4		
Rural Hospital	Hospital	17		
Trauma Center	Trauma Center	22		
Critical Access Hospital	Trauma Center	39		
Rural Hospital	Trauma Center	43		
Hospital	Trauma Center	68		

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Facility Transfer Type



Rural = Rural Hospital; TC = ACS Verified or In Process Trauma Center; CAH = Critical Access Hospital; Hospital = does not fall into above categories

Statewide Quarter 4 Data Report

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For Linked Transfer Patients:

For Transfer Patients:					
	All Transfer Patients	Critical*	Physiological Crit- ical**	ISS Critical***	<u>Ps < 0.5****</u>
Number of Patients	200	126	118	19	1
EMS Notified to Scene	8 minutes	7.1 minutes	7.2 minutes	9.4 minutes	1
EMS Scene Arrival to Departure	15.9 minutes	15.8 minutes	14.5 minutes	22.4 minutes	-
EMS Scene Departure to Initial Hospital ED Arrival	18.1 minutes	18.6 minutes	18.5 minutes	23.7 minutes	-
Initial Hospital ED Arrival to Departure	2 hours 48.2 minutes	2 hours 46.7 minutes	2 hours 49.5 minutes	1 hour 50.1 minutes	40 minutes
Initial Hospital ED Departure to Final Hospital ED Arrival	1 hour 22.7 minutes	1 hour 5.3 minutes	1 hour 4 minutes	1 hour 42.7 minutes	1 hour 1 minute
TOTAL TIME	4 hours 52.9 minutes	4 hours 33.5 minutes	4 hours 33.7 minutes	4 hours 28.3 minutes	

^{*}Critical patient is defined as having a GCS \leq 12, OR Shock Index > 0.9 OR ISS >15 at the initial hospital.

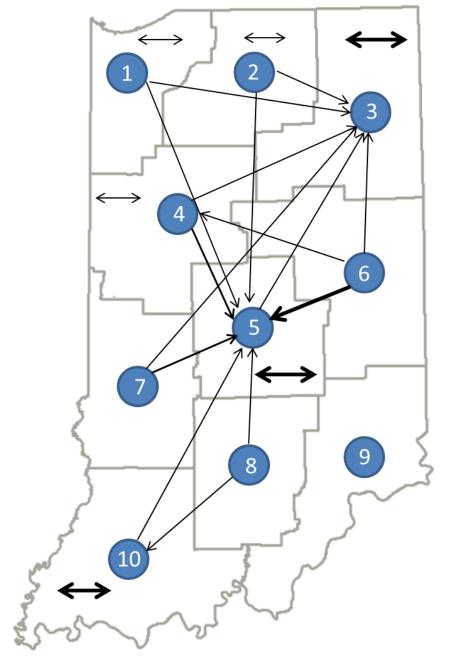
^{**}Physiological Critical Transfer patient is defined as having a Shock Index > 0.9 OR GCS ≤ 12 at the initial hospital.

^{***}ISS Critical Transfer patient is defined as having an ISS > 15.

^{****}Patients with a probability of survival ≤ 0.5 .

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For Transfer Patients:				
Public Health Preparedness District Initial Hospital	Public Health Preparedness District Final Hospital	Incident Counts		
1	1	4		
1	3	2		
1	5	9		
2	2	1		
2	3	3		
2	5	3		
3	3	39		
4	3	2		
4	4	1		
4	5	12		
5	3	3		
5	5	34		
6	3	3		
6	4	2		
6	5	36		
7	3	1		
7	5	14		
8	5	7		
8	10	1		
10	5	2		
10	10	21		

^{*}The thickness of the line indicates the frequency of transfers out of or within the public health preparedness district. The circles represent transfers from a specific PHPD, not of a specific hospital or county.

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Level III:

10 facilities
44.3% of data
10 facilities
14.4% of data
(Non-Trauma) Hospitals:
78 facilities
41.3% of data

For Linked Transfer Patients:

For Transfer Patients:						
	All Transfer Patients	Critical*	Physiological Criti- cal**	ISS Critical***	<u>Ps < 0.5****</u>	
Number of Patients	200	126	118	19	1	
Total Time	4 hours 52.9 minutes	4 hours 33.5 minutes	4 hours 33.7 minutes	4 hours 28.3 minutes	1 hours 1 minute	
Total Mileage	58.2	58.2	64.7	66.7	51.2	
Injury Scene to Initial Hospital Mileage***	8.6	8.6	9.8	9.3	1.2	
Initial Facility to Final Facility Mileage	49.7	49.7	54.9	57.5	50	

Estimated Average Distance (miles) by Region (region of final hospital):						
Region	Injury Scene to Initial Facility Mileage [†]	Initial Facility to Final Facility Mileage	Total Mileage	Drive Count	Air Count	
Indiana Average	8.6	49.7	58.2	159	41	
North Region	6.9	41.5	48.4	82	11	
Central Region	10	59.7	69.7	59	23	
South Region	10	47.3	57.2	18	7	

^{*}Critical patient is defined as having a GCS \leq 12, OR Shock Index > 0.9 OR ISS >15 at the initial hospital.

^{**}Physiological Critical Transfer patient is defined as having a Shock Index > 0.9 OR GCS ≤ 12 at the initial hospital.

^{***} ISS Critical Transfer patient is defined as ISS > 15 at the initial hospital.

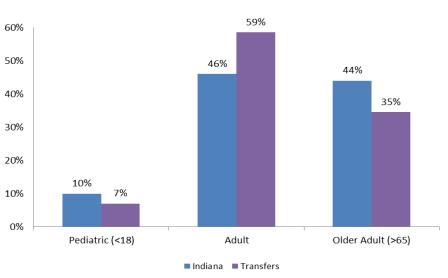
^{****}Probability of Survival < 0.5

[†]Injury Scene to Initial Facility Mileage location estimated by zip code centroid

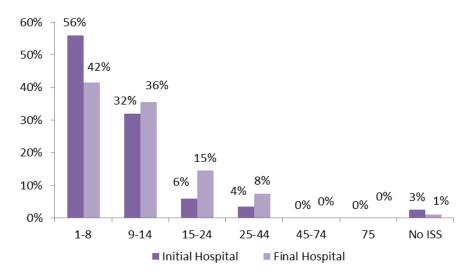
Statewide Quarter 3 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents—200 Transfers

Patient Age Groupings



Injury Severity Score (ISS)



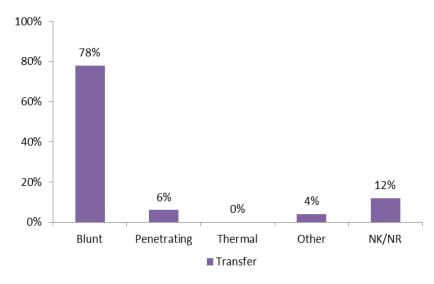
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Patient Gender



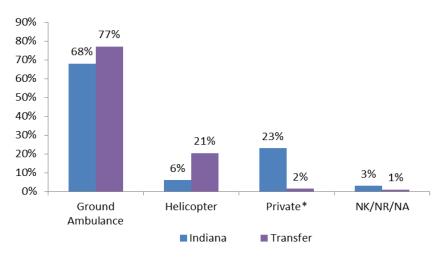
Trauma Type- Final Hospital



Statewide Quarter 3 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents—200 Transfers

Transport Mode- Final Hospital



<1% Transport Mode: Police, Other

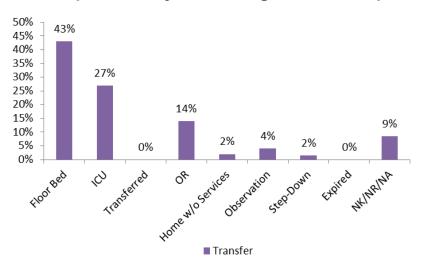
ED Length of Stay (hours)- Final Hospital



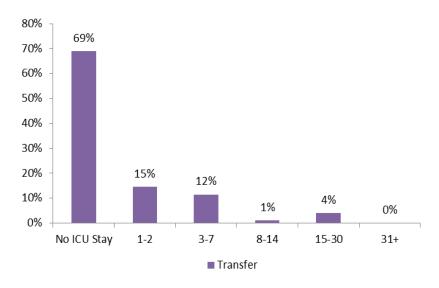
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ED Disposition by Percentage- Final Hospital



ICU Length of Stay (days)- Final Hospital

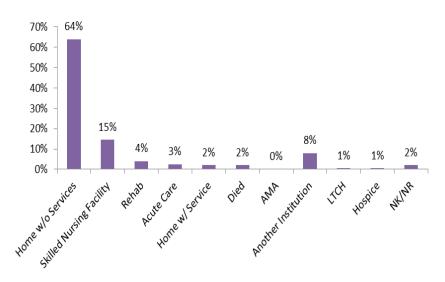


^{*} Indicates Private/ Public Vehicle, Walk-in

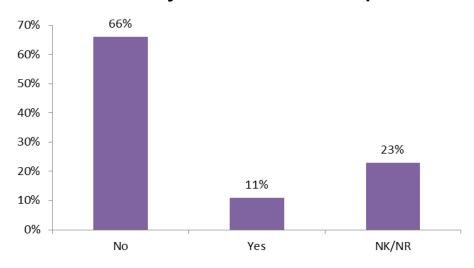
Statewide Quarter 3 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents—200 Transfers

Discharge Disposition- Final Hospital



Transfer Delay Indicated-Initial Hospital

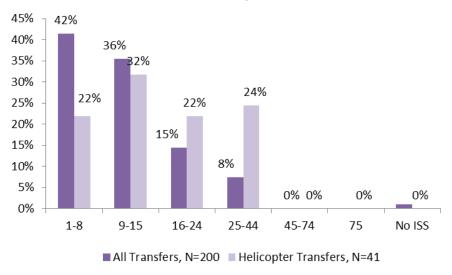


97 Total Hospitals Reporting

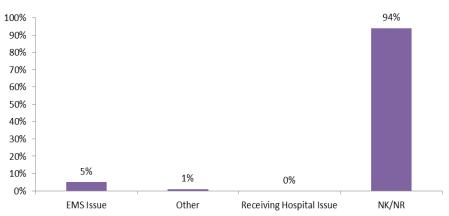
Level I and II:

9 facilities
44.3% of data
Level III:
10 facilities
14.4% of data
(Non-Trauma) Hospitals:
78 facilities
41.3% of data

Helicopter Transfers by ISS- Final Hospital



Initial Facility Transfer Delay Reason



Statewide Quarter 3 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

9 facilities 44.3% of data Level I and II: Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

Indiana State Department of Health Indiana Trauma Registry

Hospitals Not Reporting Trauma Data to the Indiana Trauma Registry

Adams Memorial Hospital Bluffton Regional Medical Center Community Westview Hospital Decatur County Memorial Hospital

IU Health - Saxony Hospital

IU Health - West Hospital

Kentuckiana Medical Center

Parkview Wabash Hospital

Richard L Roudebush VA Medical Center

St. Joseph Hospital (Fort Wayne)

St. Mary Medical Center Hobart

St. Vincent - Carmel Hospital

St. Vincent - Dunn Hospital

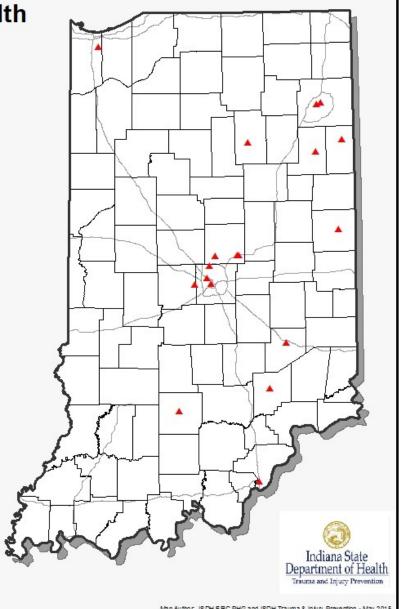
St. Vincent - Fishers Hospital

St. Vincent - Jennings Hospital

St. Vincent - Peyton Manning Children's Hospital

St. Vincent - Randolph Hospital

VA Northern IN Healthcare System



Not reporting as of 5/1/2015

Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - May 2015

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

Requests and Changes to the Report from Trauma Care Committee members at the February 2015 ISTCC Meeting: General Report:

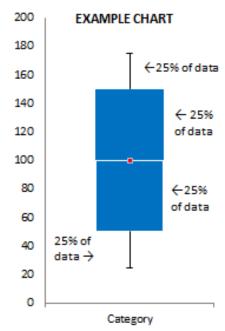
- -The hospital categories are now: Level I or II trauma centers, Level III trauma centers, and non-trauma hospitals. The trauma center categories include both verified and in process trauma centers. This is the first report with that uses this categorization.
- -The first half of the report (pages 1-21) focuses on data and timely topics for the past quarter. The second half of the report (Supplemental Report, pages 22-50) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.
- -We are continuing to track the number of cases that fell into the ED LOS > 12 hours category, which is on page 3.
- -A map of all reporting hospitals is found on page 50.
- -A map of all hospital not reporting is found on page 20.
- -Average ED LOS by district may be found on pages 24. ED LOS is split out into transfers and critical transfers.
- -There were seven cases with $Ps \ge 50\%$ and ED Disposition of expired.
- A fifth column for transferred patients with Ps < 0.50 was added on pages 14 and 16.

Example Bar and Whisker Plot:

-Bar and whisker plots were requested at the November, 2013 ISTCC meeting in order to show more than just an average ED LOS and ED LOS by ISS. The bar and whisker plots represent the four quartiles of data, as illustrated on the example graph to the right. The blue boxes each contain 25% of the values and the error bars each represent where 25% of the values fell. The median is represented in the middle of the two blue boxes with the white line.

The red dot in the center indicates the average for that category. The cap on the error bars indicates the minimum and maximum of each category and all the values fall within the two caps.

-For the ED LOS bar and whisker plots to the right, the average is represented by the white dot and the color boxes reflect the hospital type. The ED LOS by ISS plots on the next page follow the same layout and the red dots indicate the average for each of the ISS categories.



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

Supplemental Report

-The Supplemental Report (pages 22-50) contain demographic information, data that stays nearly constant from quarter to quarter, and reference tables and maps.

Definitions:

Direct Admit: Patient is admitted directly to the hospital and does not spend time in Emergency Department. The ED Length of Stay should reflect a direct admittance.

External Cause of Injury: ICD-9-CM codes that are used to describe the mechanism or external factor that caused the injury event.

Trauma Type: The classification of the force applied to the body. Trauma type categories include blunt, penetrating, thermal, and other trauma. Injury Severity Score: An anatomical scoring system defined as the sum of the three highest squared maximum Abbreviated Injury Scale (AIS) values to account for multiple injuries in the six body regions.

Acronyms:

E-code: External Cause of MVC: Motor Vehicle Collision

Injury

ED: Emergency Department
ICU: Intensive Care Unit
ISS: Injury Severity Score
OR: Operating Room
Ps: Probability of Survival
CAHs: Critical Access Hospital

LOS: Length of Stay

Calculations:

 $P_S = 1/(1+e^{-b})$ where $b=b_0+b1(RTS) + b2(ISS) + b3(Age Index)$

Total GCS = Verbal GCS + Motor GCS + Eye GCS

RTS = 0.94*GCS+0.73*SBP+0.29*RR

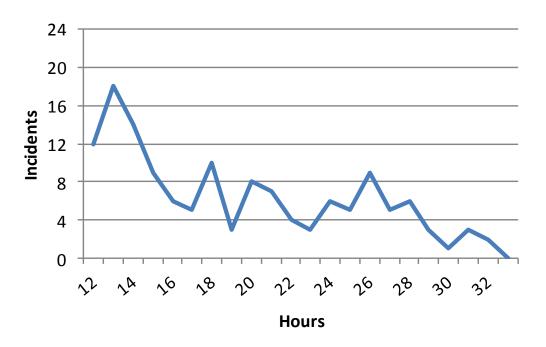
 $ISS = (AIS)^2 + (AIS)^2 + (AIS)^2$



Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

ED LOS ≥ 12 Hours



97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

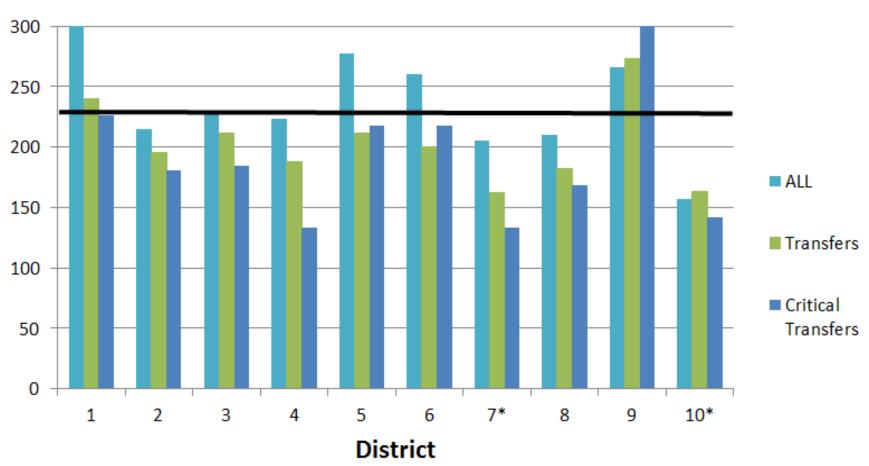
ED Len	ED Length of Stay ≥ 12 Hours				
Hour	Count	Hour	Count		
12th	12	23rd	3		
13th	18	24th	6		
14th	14	25th	5		
15th	9	26th	9		
16th	6	27th	5		
17th	5	28th	6		
18th	10	29th	3		
19th	3	30th	1		
20th	8	31st	3		
21st	7	32nd	2		
22nd	4				

N=139

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting
Level I and II:

9 facilities
44.3% of data
Level III:
10 facilities
14.4% of data
(Non-Trauma) Hospitals:
78 facilities
41.3% of data

Average ED LOS (Minutes)



^{*}Districts 7 and 10 have all hospitals reporting. The average bar is for all patients.

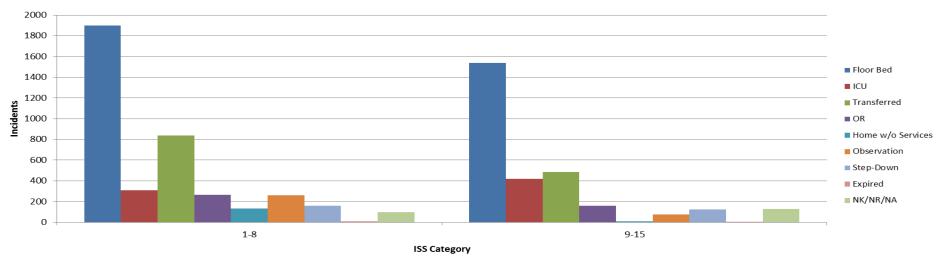
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting
Level I and II: 9 facilities

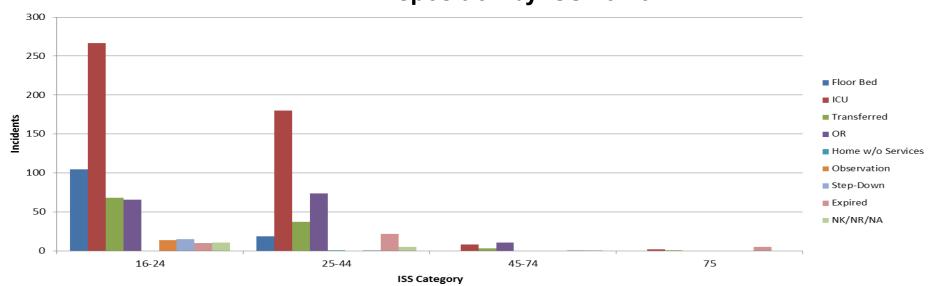
Level III: 10 facilities (Non-Trauma) Hospitals: 78 facilities

44.3% of data 14.4% of data 41.3% of data

ED Disposition by ISS 1-14



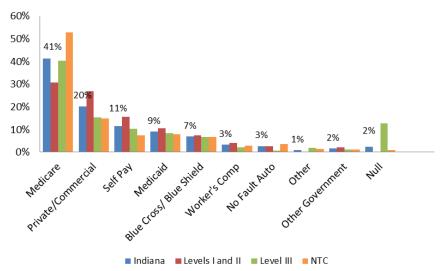
ED Disposition by ISS 15-75



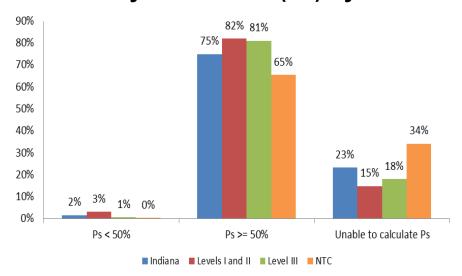
Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

Primary Payer Mix



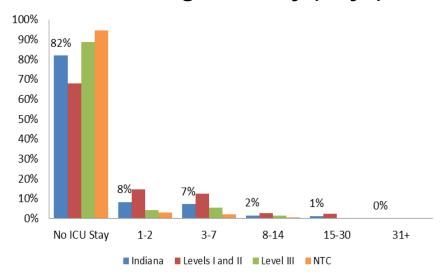
Probability of Survival (Ps) by Percent



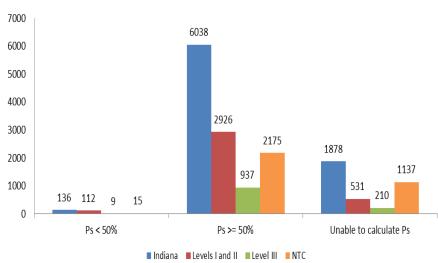
97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ICU Length of Stay (Days)



Probability of Survival (Ps) by Count



Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II:

Level III:

10 facilities
44.3% of data
10 facilities
14.4% of data
10 facilities
14.3% of data
14.3% of data

Probability of Survival Components—All Patients									
			Count 1	Missing			Percent	Missing	
Co	omponents	Indiana	Levels I and II	Level III	Non- Trauma Center	Indiana	Levels I and II	Level III	Non- Trauma Centers
RTS	GCS	1637	436	176	1025	20.33%	12.22%	15.22%	30.81%
	SBP	478	110	66	302	5.94%	3.08%	5.71%	9.08%
	Respiratory Rate	444	109	63	272	5.51%	3.05%	5.45%	8.18%
ISS		3	0	0	3	0.04%	0%	0%	0.09%
Age		1	0	0	1	0.01%	0%	0%	0.03%

RTS = 0.9368*GCS + 0.7326*SBP + 0.2908*Respiratory Rate

Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

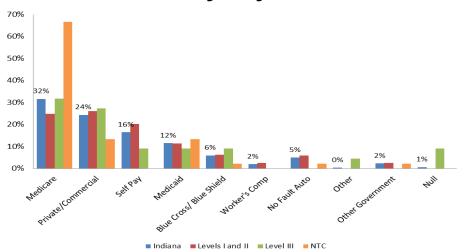
97 Total Hospitals Reporting

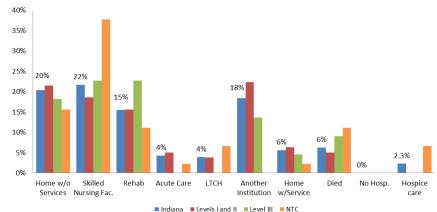
Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

Hospital Length of Stay > 15 days, N=294

Primary Payer Mix





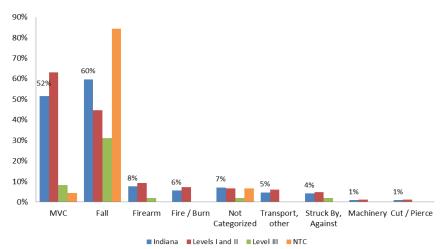


Another Institution includes any other medical facility not defined in the other categories

Probability of Survival

211 200 150 100 50 34 34 0 Ps < 50% Ps >= 50% Unable to calculate Ps Indiana Levels and II Level III NTC

Cause of Injury



Hospital Length of Stay > 15 Days: Total N=294;

Levels I and II N=237;

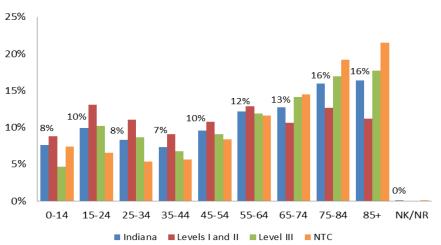
Level III N=12;

NTC N=45

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014

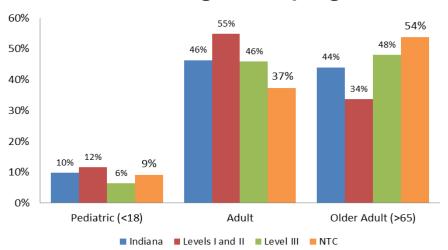
October 1, 2014 to December 31, 2014 8,052 Incidents

Patient Age (Years)



There was 1 unknown age.

Patient Age Groupings



97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

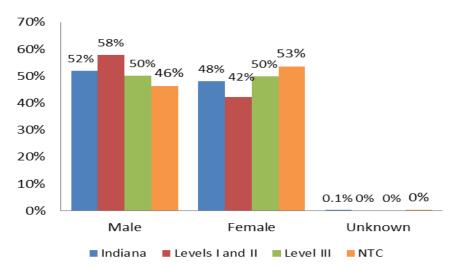
Age Group	Indiana	I and II	III	NTC
0-14	613	314	54	245
15-24	801	466	118	217
25-34	671	393	100	178
35-44	591	325	78	188
45-54	769	385	105	279
55-64	980	458	137	385
65-74	1022	378	163	481
75-84	1285	451	196	638
85+	1319	399	205	715
NK/NR	1	0	0	1
Total	8052	3569	1156	3327

Age Group	Indiana	I and II	III	NTC
Pediatric	786	414	73	299
Adult	3727	1957	529	1241
Older Adult	3538	1198	554	1786
Total	8051	3569	1156	3326

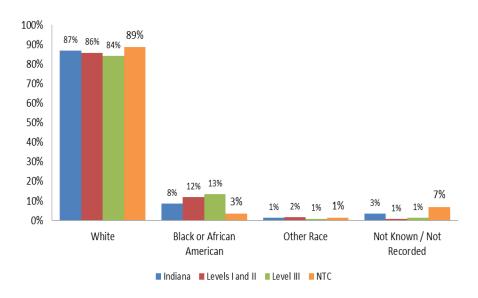
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014

October 1, 2014 to December 31, 2014 8,052 Incidents

Patient Gender



Patient Race



97 Tota	Hospitals	Reporting
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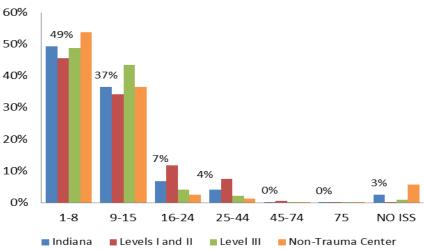
Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

Gender	Indiana	I and II	III	NTC
Male	4184	2062	579	1543
Female	3863	1507	577	1779
Unknown	5	0	0	5
Total	8052	3569	1156	3327

Race	Indiana	I and II	III	NTC
White	6973	3057	971	2945
Black or African American	683	421	154	108
Other	100	54	8	38
Not Known/Not Recorded	259	20	13	226
American Indian or Alaska Native	3	1	2	0
Asian	29	13	8	8
Native Hawaiian or Pacific Is- lander	5	3	0	2
Total	8052	3569	1156	3327

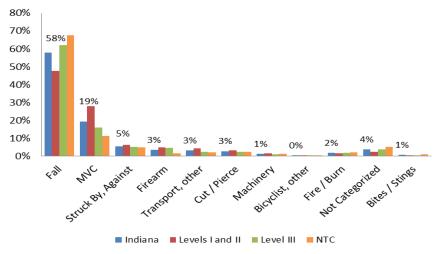
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

Injury Severity Score (ISS)



There were 24 and 8 cases in the 45-74 and 75+ categories, respectively

Cause of Injury



<1% COI: Pedestrian Traffic Accident, Natural/Environment, Overexertion, No E-Code

97 Total Hospitals Reporting

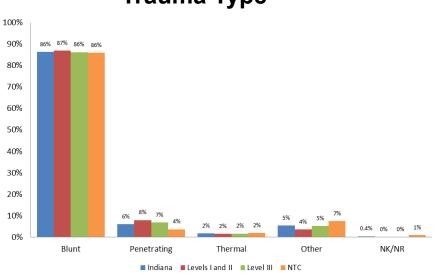
Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ISS Category	Indiana	I and II	III	NTC
1-8	3978	1625	565	1788
9-15	2940	1221	502	1217
16-24	556	421	48	87
25-44	339	272	26	41
45-74	24	20	2	2
75	8	5	2	1
No ISS	207	5	11	191
Total	8052	3569	1156	3327

Cause of Injury	Indiana	I and II	III	NTC
Fall	4659	1694	718	2247
MVC	1549	992	184	373
Struck By, Against	427	215	57	155
Firearm	269	171	52	46
Transport	240	146	26	68
Cut/Pierce	216	113	27	76
Machinery	103	54	10	39
Bicyclist	31	12	5	14
Fire/Burn	141	56	19	66
Not Categorized	293	81	41	171
Bites/Stings	42	9	5	28

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

Trauma Type

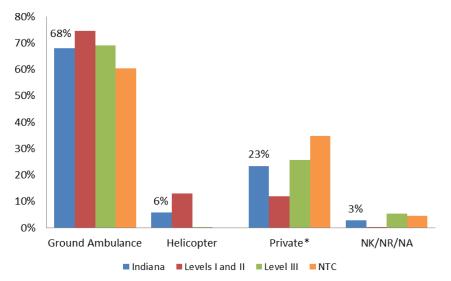


97 Total Hospitals Reporting

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Trauma Type	Indiana	I and II	III	NTC
Blunt	6958	3102	997	2859
Penetrating	485	284	79	122
Thermal	141	56	19	66
Other	435	126	61	248
NK/NR	33	1	0	32
Total	8052	3569	1156	3327

Transport Mode

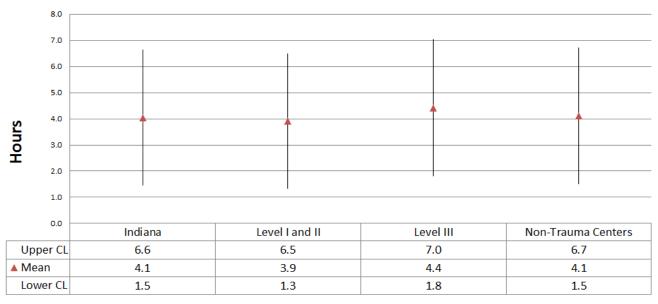


Transport Mode	Indiana	I and II	III	NTC
Ground Ambulance	5467	2662	797	2008
Helicopter	462	461	1	0
Private	1883	428	296	1159
NK/NR/NA	217	10	61	146
Police	21	7	1	13
Other	2	1	0	1
Total	8052	3569	1156	3327

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

All Patients Average ED LOS (Hours)



The purpose of the caterpillar graphs is to compare different groups to the average ED LOS. The Indiana mean is the comparison group, which is represented by the black line.

The ED LOS for these graphs was modeled using time-to-event analysis. The purposes of using this analysis were to account for censoring (death) and to see how variables influence ED LOS. The outcome variable was ED LOS and the independent variables were total GCS and age. If total GCS was missing but manual total GCS was recorded, then the manual total GCS was used. These two variables were used because they were the most similar to variables used in the published, peer-reviewed literature on ED LOS. Both were significant in the model. Increasing total GCS and age led to a slightly shorter ED LOS. Hospitals that did not have enough incidents with total GCS or age could not be modeled.

In the chart on the left, note the trauma center average is above the mean and the non-trauma center is below the mean. The mean, 95% confidence limit and lower confidence limit are listed for each group.

In the chart on the right, the data is for the trauma centers. The trauma center average is in the first column on the left side. The information for each trauma center has been assigned a random number for confidentiality. The mean, 95% confidence limit and lower confidence limit are listed for each group.

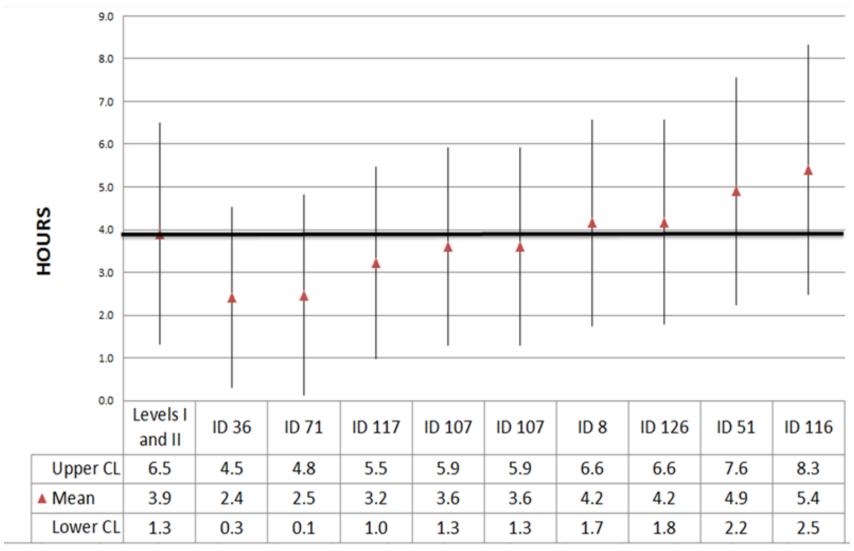
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014

8,052 Incidents

97 Total Hospitals Reporting
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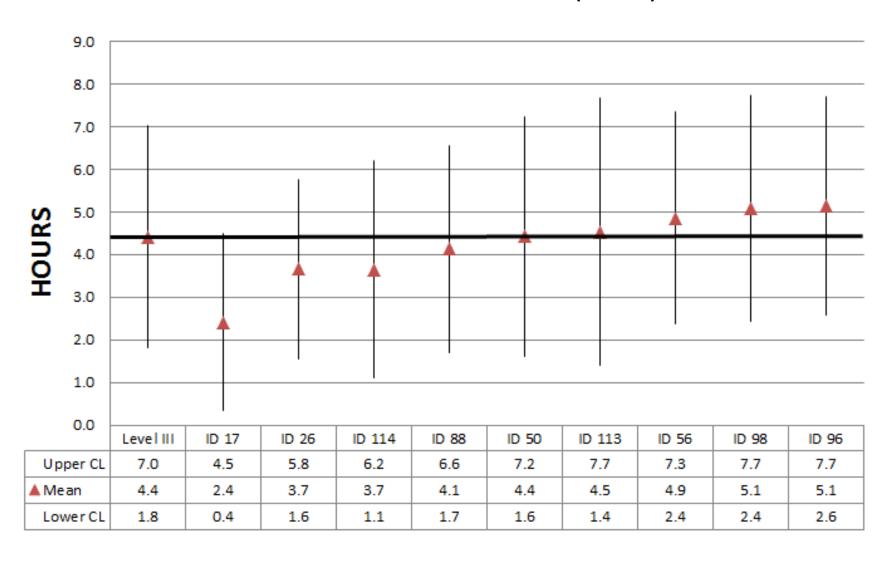
All Patients
Level I and II Trauma Centers ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

All Patients Level III Trauma Centers ED LOS (Hours)

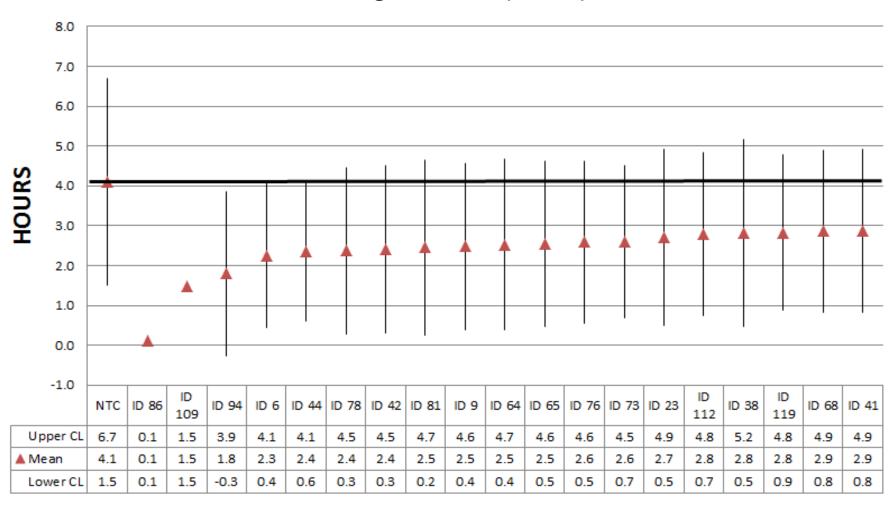


Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II:

9 facilities
44.3% of data
Level III:
10 facilities
14.4% of data
(Non-Trauma) Hospitals:
78 facilities
41.3% of data

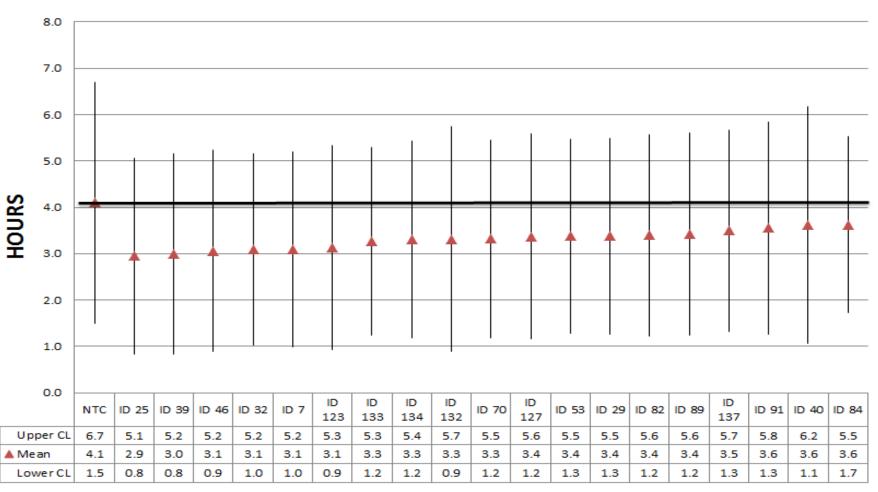
All Patients Non-Trauma CentersAverage ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

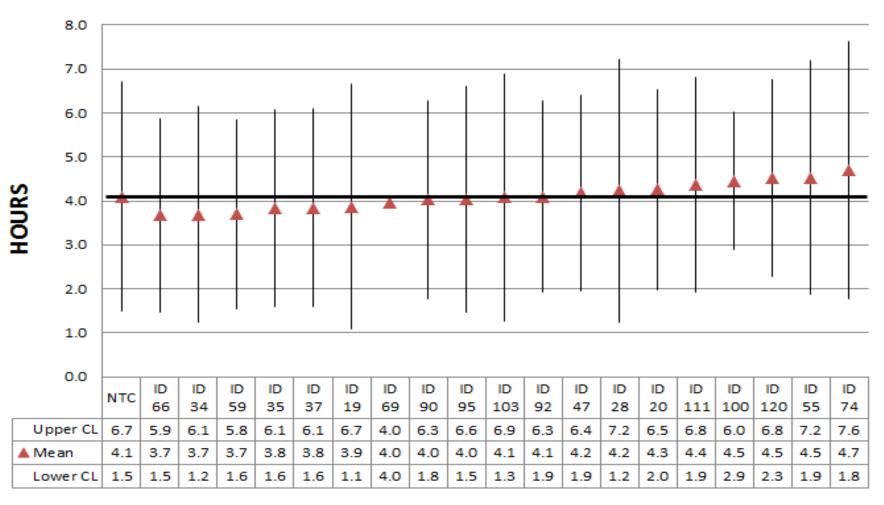
All Patients Non-Trauma CentersAverage ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

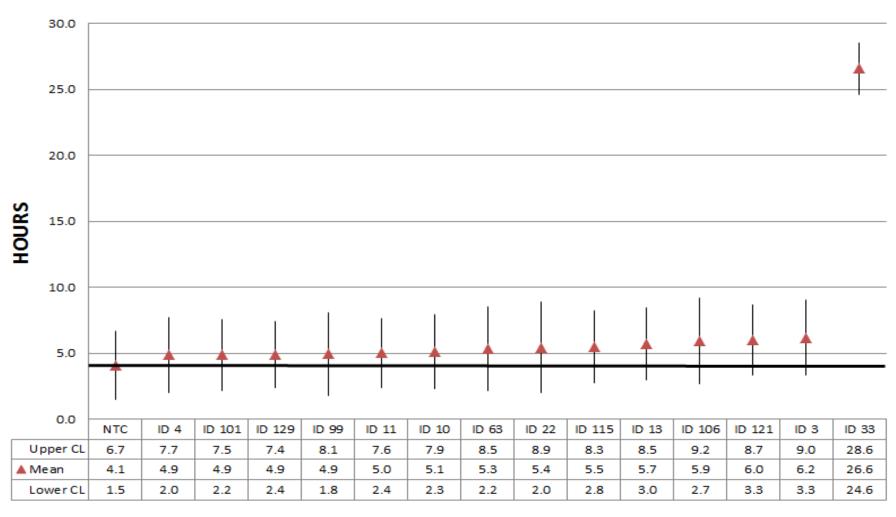
All Patients Non-Trauma CentersAverage ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

All Patients Non-Trauma CentersAverage ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014

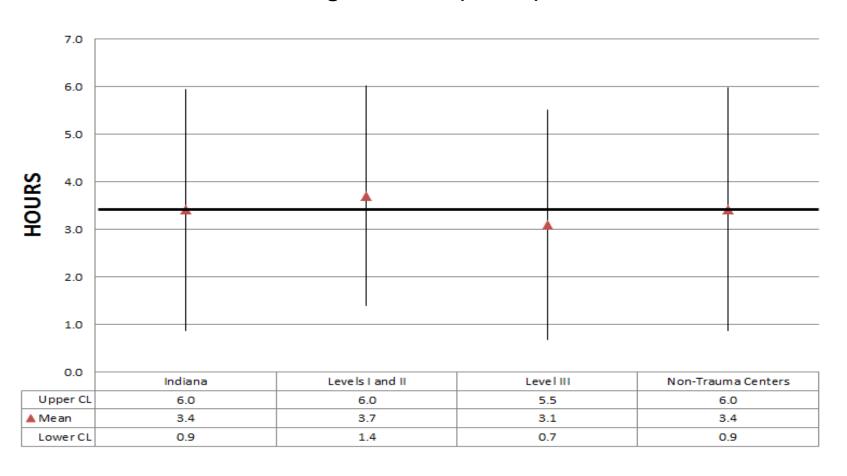
October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ED Disposition = Transferred

Average ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014

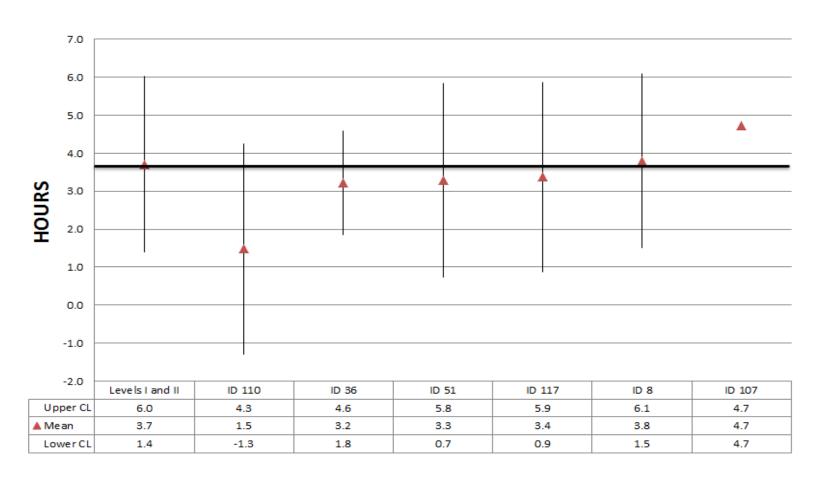
October 1, 2014 to December 31, 2014 8,052 Incidents

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ED Disposition = Transferred

Level I and II Trauma Centers- Average ED LOS (Hours)



Statewide Quarter 4 Data Report

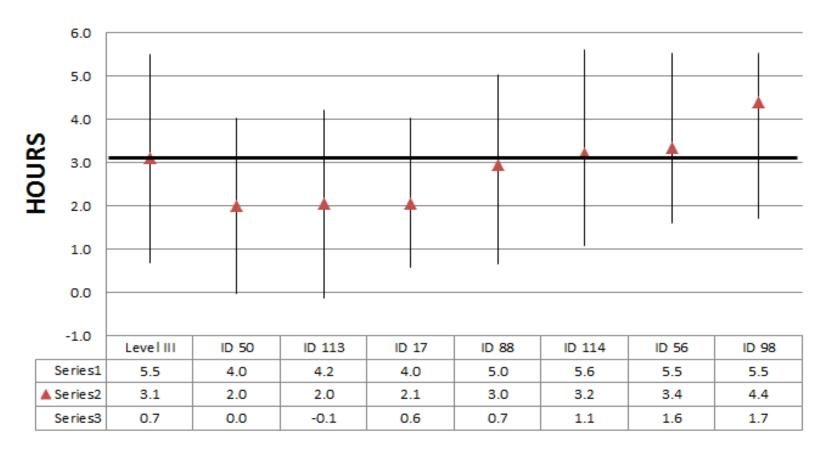
October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ED Disposition = Transferred

Level III Trauma Centers- Average ED LOS (Hours)



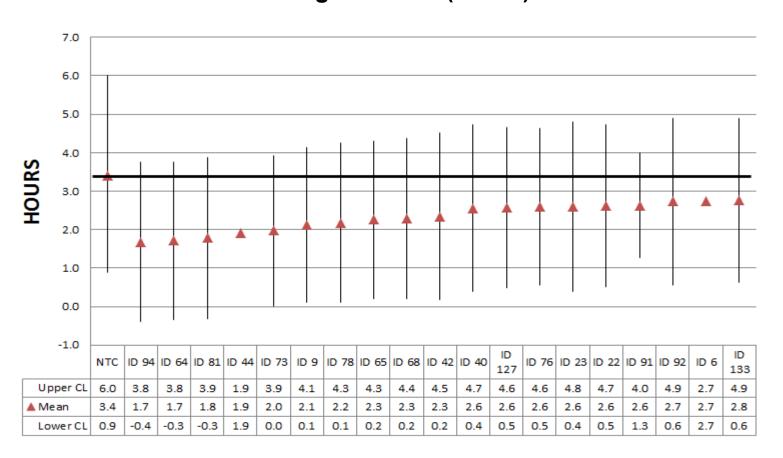
Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities
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ED Disposition = Transferred

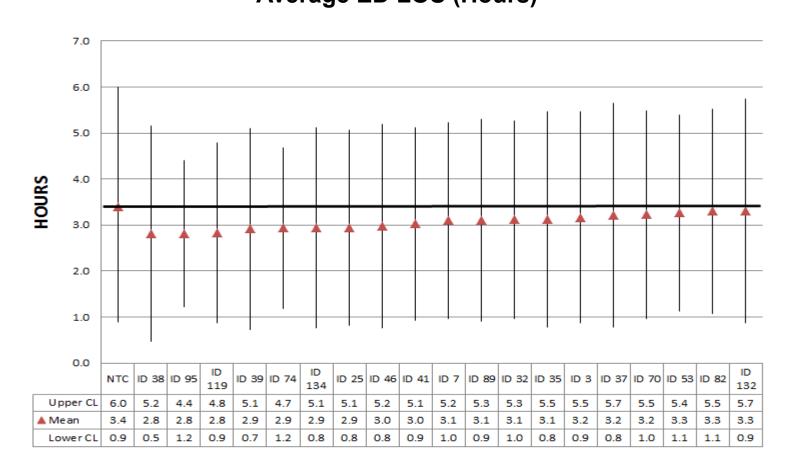
Non-Trauma Centers-Average ED LOS (Hours)



Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ED Disposition = Transferred Non-Trauma CentersAverage ED LOS (Hours)

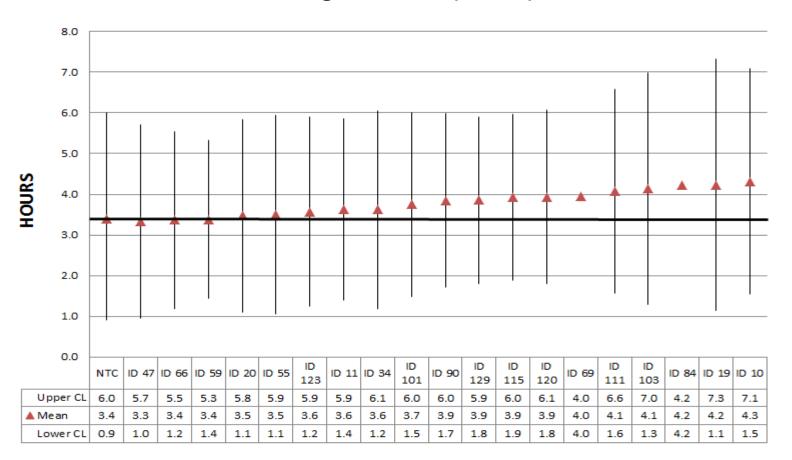


Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ED Disposition = Transferred

Non-Trauma Centers-Average ED LOS (Hours)

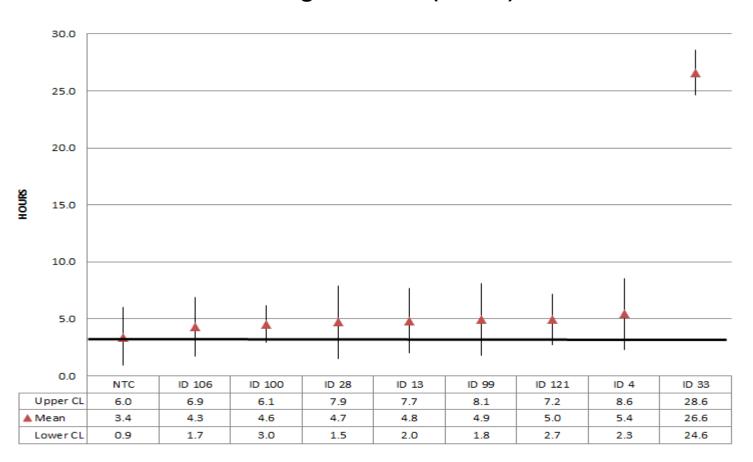


Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents 97 Total Hospitals Reporting

Level I and II: 9 facilities 44.3% of data Level III: 10 facilities 14.4% of data (Non-Trauma) Hospitals: 78 facilities 41.3% of data

ED Disposition = Transferred

Non-Trauma Centers-Average ED LOS (Hours)



Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

ED Length of Stay

ED Length of Stay (minutes)									
	Indiana Average	Levels I and II	Level III	NTC					
N=	7181	3431	864	2886					
Average	243.4	234.8	265.3	247					
Std. Deviation	183	178.8	191	184.9					
Minimum	0	1	5	0					
Quartile 1	141	127	164	152					
Median	210	200	232	213					
Quartile 3	296	298	308.5	290					
Maximum	1948	1860	1948	1919					

97 Total Hospitals Reporting

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ED Disposition

ED Disposition (count)									
	Indiana	Levels I and II	Level III	NTC					
Floor Bed	3656	1639	594	1423					
ICU	1187	993	83	111					
Transferred	1482	97	190	1195					
OR	579	404	75	100					
Home w/o Services	148	82	34	32					
Observation	354	160	92	102					
Step-Down	304	56	22	226					
Expired	53	28	10	15					
AMA	7	4	1	2					
Home W/ Services	2	0	0	2					
Other	10	1	3	6					
NK/NR/NA	270	105	52	113					

^{*}A bar graph of ED Disposition is found on page 2.

^{*}A bar graph of ED Length of Stay is found on page 2.

^{*}A Box and Whisker plot of ED LOS is found on page 4.

Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

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ED Length of Stay by ISS

ED Length of Stay (minutes)										
ISS Category	Indiana Average	Indiana Average	Levels I and II	Levels I and II	Level III	Level III	Non- Trauma Centers	Non- Trauma Centers		
	Counts	Minutes	Counts	Minutes	Counts	Minutes	Counts	Minutes		
1-8	3576	253.9	1569	251.8	406	271.5	1601	251.6		
9-15	2630	247.8	1159	241.6	388	275.2	1083	244.7		
16-24	526	205.1	408	205.1	42	179.1	526	219.6		
25-44	324	166.1	267	163.3	21	144.6	36	199.1		
45-74	23	142.6	19	126.3	2	284.5	2	153.5		
75	6	111.3	5	77.2	0	-	1	182		
No ISS	95	233.1	4	92.8	5	221	86	240.3		

^{*}A Box and Whisker plot of ED Length of Stay by ISS is found on page 4.

Statewide Quarter 4 Data Report

October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

Level I and II:

9 facilities
44.3% of data
Level III:
10 facilities
14.4% of data
(Non-Trauma) Hospitals:
78 facilities
41.3% of data

ED Disposition (count) by ISS Category

	Floor Bed	ICU	Transferred	OR	Observation	NK/NR/ NA	Step- Down	Home w/o Services	Expired	Other	AMA	Home w/ Services	Total
1-8	1901	308	838	265	259	96	159	133	7	5	5	2	3978
9-15	1537	417	487	157	74	130	124	8	4	0	2	0	2940
16-24	105	267	68	66	14	11	15	0	10	0	0	0	556
25-44	19	180	37	74	0	5	1	1	22	0	0	0	339
45-74	0	8	3	11	0	1	0	0	1	0	0	0	24
75	0	2	1	0	0	0	0	0	5	0	0	0	8
NO ISS	94	5	48	6	7	27	5	6	4	5	0	0	207
Total	3656	1187	1482	579	354	270	304	148	53	10	7	2	8052

^{*}Bar graph of ED Disposition by ISS is found on page 25.

Indiana State Department of Health Indiana Trauma Registry

Hospitals Reporting Trauma Data Quarter 4, 2014 October 1- December 31, 2014

TIT Level I and II Trauma Centers

Deaconess Hospital
Eskenazi Health
IU Health - Methodist Hospital
Lutheran Hospital of Indiana
Memorial Hospital of South Bend
Parkview Regional Medical Center
Riley Hospital for Children at IU Health
St. Mary's Medical Center of Evansville
St. Vincent Indianapolis Hospital

Level III Trauma Centers

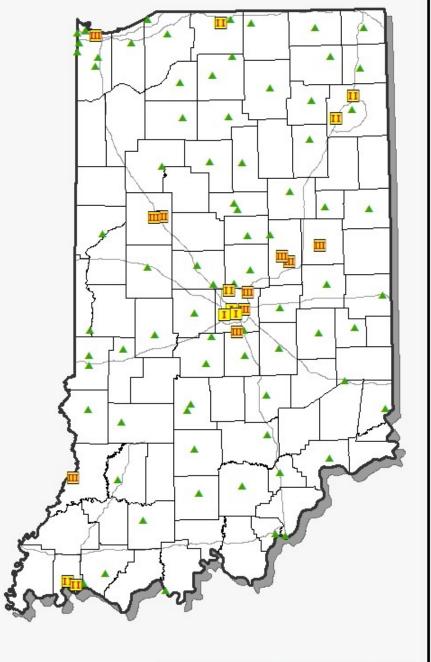
Community Hospital of Anderson
Community Hospital - East
Community Hospital - North
Community Hospital - South
Franciscan St. Elizabeth East Hospital
Good Samaritan Hospital
IU Health - Arnett Hospital
IU Health - Ball Memorial Hospital
Methodist Hospital - Northlake Campus
St. Vincent Anderson Regional Hospital

▲ Non-Trauma Hospitals

78 Non-Trauma Hospitals

Hospital categories include Verified and "In the Process" Trauma Centers





Map Author: ISDH ERC PHG and ISDH Trauma & Injury Prevention - May 2015

Statewide Quarter 4 Data Report October 1, 2014 to December 31, 2014 8,052 Incidents

97 Total Hospitals Reporting

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General Report:

- -The caterpillar plots with the anonymous ID's for all patients per hospital may be found on pages 33-39.
- -The caterpillar plots with the anonymous ID's for transferred patients per hospital may be found on pages 40-46.
- -Reference tables now accompany the graphs for demographic data on pages 29-32.